Government of
Saskatchewan

2006
Annual Report

Saskatchewan
Health

Vital Statistics

Letters of Transmittal

His Honour the Honourable Dr. Gordon L. Barnhart, S.O.M., Ph.D.
Lieutenant Governor of Saskatchewan

May it Please Your Honour:

I respectfully submit the Annual Report of Saskatchewan Vital Statistics for the calendar year 2006.

Len Taylor
Minister of Health

The Honourable Len Taylor
Minister of Health

I have the honour of submitting the Annual Report of Saskatchewan Vital Statistics for the calendar year ending December 31, 2006.

John Wright
Deputy Minister of Health

2007-04686/

Table of Contents

Table of Contents 1

List of Tables 2

Terms and Definitions 3

Introduction 4

Population 6

Live Births 8

Stillbirths 9

Deaths 9

Accidents and Violence 14

Marriages 16

Divorces 17

Life Expectancy 17

Adoptions 18

Legal Changes of Name 18

Documents Issued 18

This annual report is also available in electronic format from the department's web site at **www.health.gov.sk.ca**

List of Tables

Table 1.	Summary of Vital Statistics, Saskatchewan, 2002-2006	5
Table 2.	The Historical Trend in Saskatchewan Population	6
Table 3.	Distribution of Total Population, Saskatchewan, 2006	7
Table 4.	Percentage Distribution by Sex, Saskatchewan, for Selected Years	7
Table 5.	Live Birth Rates per 1,000 Population, Canada and the Provinces	8
Table 6.	Crude Death Rates per 1,000 Population, Canada and the Provinces	9
Table 7.	Age Specific Death Rates per 1,000 Population, Saskatchewan, 1997-2006	10
Table 8.	Number of Deaths by Cause Occurring in Saskatchewan in 2006	10
Table 9.	Natural Increase and Actual Increase, Saskatchewan, 2001 – 2006	15
Table 10.	Marriage Rates per 1,000 Population, Canada and the Provinces, 2005	16
Table 12.	Documents Issued 2004 – 2006	18

Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1997 - 2000, 2002-2005; and, final census figures for 2001 and 2006.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Fetal deaths occurring after at least 20 weeks pregnancy or after attaining a weight of at least 500 grams.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Fetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Introduction

The Vital Statistics Annual Report represents a concise record of those vital events which occurred in Saskatchewan during the calendar year. The Report has been prepared in accordance with the requirements of subsections 50(1) and 50(2) of *The Vital Statistics Act, 1995.*

The Vital Statistics Annual Report 2006 records vital events by place of occurrence for 2006 (vital events which occurred in Saskatchewan in 2006). It includes, for example, births to Saskatchewan residents who were in the province at the time of giving birth, as well as residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth.

The data in this report are based on original registration forms and do not include amendments. The vital events recorded in this report for years previous to 2006 are by place of residence, unless otherwise indicated.

Table 1. Summary of Vital Statistics, Saskatchewan 2002 - 2006

Item	2002	2003	2004	2005*	2006
Population (ooo's)	996	995	990	994	985
Live Births	11,760	12,038	11,983	12,104	12,427
Crude Rate**	11.8	12.1	12.1	12.2	12.6
Deaths	8,906	9,007	8,844	8,845	9,100
Crude Rate++	8.7	9.1	8.9	8.8	9.2
Natural Increase	2,854	3,031	3,139	3,259	3,327
Crude Rate++	2.9	3.0	3.2	3.3	3.4
Infant Deaths	67	76	74	95	80
Crude Rate**	5.7	6.3	6.2	7.8	6.4
Neonatal Deaths	40	46	40	61	49
Crude Rate**	3.4	3.8	3.3	5.0	3.9
Perinatal Deaths@					
500 grams or more (20+ weeks Gestation)	126	119	124	130	124
Crude Rate+++	10.6	9.8	10.3	10.7	9.9
500 grams or more or (28+ weeks Gestation)	97	90	82	97	82
Crude Rate+++	8.2	7.4	6.8	8.0	6.5
Stillbirths@					
500 grams or more or 20+ weeks Gestation	93	77	90	75	82
Crude Rate**	7.4	6.3	7.4	6.2	6.6
500 grams or more or 28+ weeks Gestation	61	49	50	42	40
Crude Rate**	5.2	4.1	4.2	3.5	3.2
Marriages	5,067	4,977	5,043	5,121	5,157
Crude Rate++	5.0	5.1	5.1	5.1	5.2
Divorces and Annulments	1,959	1,992	1,877	1,925	1,953

* Preliminary figures only. Final figures not yet released by Statistics Canada.
** Crude Rate per 1,000 live births
++ Crude Rate per 1,000 population
+++ Crude Rate per 1,000 total births (live births and stillbirths)
@ See Terms and Definitions, page 3

A. Population

1. The Historical Trend

The estimated population of 985,386 for 2006 is a decrease of .46 percent from the 2005 estimated population of 989,957.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1961	925
1971	926
1981	968
1991	991
2001	1,000
2002	996*
2003	995*
2004	995*
2005	990*
2006	985

* Statistics Canada postcensal estimate.
All other figures are final census.

2. The Distribution of the Total Population by Age

The proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan the proportion of persons 65 years of age and over is greater than in Canada as a whole (14.9 percent and 13.2 percent respectively).

Table 3. Distribution of Total Population by Age 2006 (000's)

	Canada		Saskatchewan	
Age Group	Number	Percent	Number	Percent
Total	32,623.5	100.0	985.4	100.0
0-19	7,814.6	23.9	265.9	27.0
20-44	11,781.5	36.1	325.6	33.0
45-64	8,713.2	26.8	246.9	25.1
65+	4,314.2	13.2	147.0	14.9

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1961	51.8	48.2	107
1971	50.8	49.2	103
1981	50.2	49.8	101
1991	49.6	50.4	98
2001	49.6	50.4	98
2002*	49.6	50.4	98
2003*	49.7	50.3	99
2004*	49.7	50.3	99
2005*	49.7	50.3	99
2006	49.7	50.3	99

* Statistics Canada postcensal estimate.
All other figures are final census.

B. Births

1. Live Births

During the year 2006, a total of 12,427 live births occurred in the province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the province at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 12,427 live births represents a crude birth rate of 12.6 live births per 1,000 population, which is slightly higher than last year's birth rate of 12.2.
The birth rates for Saskatchewan, for Canada, and for the provinces and territories are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces.

Province	2004-2005	2005-2006
Canada	10.5	10.6
Newfoundland & Labrador	8.6	8.5
Prince Edward Island	10.1	10.1
Nova Scotia	9.3	9.2
New Brunswick	9.2	9.1
Quebec	9.9	10.3
Ontario	10.6	10.5
Manitoba	11.8	11.8
Saskatchewan	12.1	12.2
Alberta	12.7	12.6
British Columbia	9.6	9.6
Yukon	11.7	11.7
Northwest Territories	16.3	16.2
Nunavut	25.3	25.3

* Estimate from demography division July 1 – June 30.

2. Stillbirths

During the year 2006, a total of 82 stillbirths occurred in the province. The definition of stillbirth is given on page 3. The 82 stillbirths occurred after 20 or more weeks gestation (or attaining a weight of 500 grams or more); 40 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent crude rates of 6.6 and 3.2 stillbirths per 1,000 live births respectively.

C. Deaths

During the year 2006, a total of 9,100 deaths occurred within the province of Saskatchewan. This represents a crude death rate of 9.2 deaths per 1,000 population.

The death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces.

Province	2004-2005	2005-2006
Canada	7.3	7.2
Newfoundland & Labrador	8.5	8.8
Prince Edward Island	8.8	8.9
Nova Scotia	8.9	9.0
New Brunswick	8.6	8.8
Quebec	7.4	6.9
Ontario	7.1	7.2
Manitoba	8.6	8.7
Saskatchewan	9.2	9.4
Alberta	6.0	6.1
British Columbia	7.1	7.0
Yukon	4.5	4.8
Northwest Territories	5.0	5.1
Nunavut	4.4	4.5

* Estimate from demography division July 1 – June 30.

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1997 – 2006

Year	All Ages	Age Group Under 5	5-14	15-24	25-44	45-64	65+
1997	8.4	2.0	0.3	0.7	1.2	5.3	46.9
1998	8.7	1.6	0.1	0.8	1.0	5.2	48.4
1999	8.8	1.5	0.2	0.6	1.1	5.2	49.2
2000	8.8	1.5	0.2	0.8	1.2	4.9	49.0
2001	8.6	1.3	0.1	0.7	1.1	4.9	48.4
2002	8.7	1.3	0.3	0.7	1.2	5.0	48.8
2003	8.9	1.5	0.2	0.8	1.2	4.9	48.4
2004	8.9	1.5	0.2	0.8	1.3	5.0	48.0
2005	8.8	2.0	0.1	0.9	1.2	3.9	48.2
2006*	9.2	1.6	0.1	0.9	1.3	4.9	49.7

* Statistics Canada postcensal estimate.
All other figures are final census.

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2006

	Deaths	Percent	Rate*
All Causes of Death	9100	100.0	923.5
1 Salmonella infections	0	0.0	0.0
2 Shigellosis and amebiasis	0	0.0	0.0
3 Certain other intestinal infections	14	0.1	1.4
4 Respiratory tuberculosis	4	0.0	0.4
5 Other tuberculosis	0	0.0	0.0
6 Whooping cough	0	0.0	0.0
7 Scarlet fever and erysipelas	0	0.0	0.0
8 Meningococcal infection	0	0.0	0.0
9 Septicemia	65	0.7	6.6
10 Syphilis	0	0.0	0.0
11 Acute poliomyelitis	0	0.0	0.0
12 Arthropod-borne viral encephalitis	0	0.0	0.0
13 Measles	1	0.0	0.1
14 Viral hepatitis	5	0.0	0.5

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2006

	Deaths	Percent	Rate*
15 Human immunodeficiency virus (HIV) disease	3	0.0	0.3
16 Malaria	0	0.0	0.0
17 Other and unspecified infectious and parasitic diseases and their sequelae	22	0.2	2.2
18 Malignant neoplasms of lip, oral cavity and pharynx	32	0.4	3.2
19 Malignant neoplasm of esophagus	55	0.6	5.6
20 Malignant neoplasm of stomach	36	0.4	3.7
21 Malignant neoplasms of colon, rectum and anus	236	2.6	24.0
22 Malignant neoplasms of liver and intrahepatic bile ducts	41	0.5	4.2
23 Malignant neoplasm of pancreas	120	1.3	12.2
24 Malignant neoplasm of larynx	17	0.2	1.7
25 Malignant neoplasms of trachea, bronchus and lung	529	5.8	53.7
26 Malignant melanoma of skin	20	0.2	2.0
27 Malignant neoplasm of breast	154	1.7	15.6
28 Malignant neoplasm of cervix uteri	13	0.1	1.3
29 Malignant neoplasms of corpus uteri and uterus, part unspecified	16	0.2	1.6
30 Malignant neoplasm of ovary	66	0.7	6.7
31 Malignant neoplasm of prostate	206	2.3	20.9
32 Malignant neoplasms of kidney and renal pelvis	62	0.7	6.3
33 Malignant neoplasm of bladder	51	0.6	5.2
34 Malignant neoplasms of meninges, brain and other parts of central nervous system	45	0.5	4.6
35 Hodgkin's disease	5	0.0	0.5
36 Non-Hodgkin's lymphoma	95	1.0	9.6
37 Leukemia	84	0.9	8.5
38 Multiple myeloma and immunoproliferative neoplasms	40	0.4	4.1
39 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	0	0.0	0.0
40 All other and unspecified malignant neoplasms	336	3.7	34.1
41 In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	67	0.7	6.8
42 Anemias	21	0.2	2.1

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2006

	Deaths	Percent	Rate*
43 Diabetes mellitus	321	3.5	32.6
44 Malnutrition	3	0.0	0.3
45 Other nutritional deficiencies	7	0.1	0.7
46 Meningitis	3	0.0	0.3
47 Parkinson's disease	68	0.7	6.9
48 Alzheimer's disease	229	2.5	23.2
49 Acute rheumatic fever and chronic rheumatic heart diseases	20	0.2	2.0
50 Hypertensive heart disease	54	0.6	5.5
51 Hypertensive heart and renal disease	9	0.1	0.9
52 Acute myocardial infarction	529	5.8	53.7
53 Other acute ischemic heart diseases	25	0.3	2.5
54 Atherosclerotic cardiovascular disease, so described	234	2.6	23.8
55 All other forms of chronic ischemic heart disease	753	8.3	76.4
56 Acute and subacute endocarditis	5	0.0	0.5
57 Diseases of pericardium and acute myocarditis	7	0.1	0.7
58 Heart failure	311	3.4	31.6
59 All other forms of heart disease	267	2.9	27.1
60 Essential (primary) hypertension and hypertensive renal disease	81	0.9	8.2
61 Cerebrovascular diseases	552	6.1	56.0
62 Atherosclerosis	34	0.4	3.5
63 Aortic aneurysm and dissection	66	0.7	6.7
64 Other diseases of arteries, arterioles and capillaries	36	0.4	3.7
65 Other disorders of circulatory system	10	0.1	1.0
66 Influenza	14	0.2	1.4
67 Pneumonia	256	2.8	26.0
68 Acute bronchitis and bronchiolitis	0	0.0	0.0
69 Unspecified acute lower respiratory infection	9	0.1	0.9
70 Bronchitis, chronic and unspecified	7	0.1	0.7
71 Emphysema	23	0.3	2.3
72 Asthma	0	0.0	0.0
73 Other chronic lower respiratory diseases	354	3.9	35.9
74 Pneumoconioses and chemical effects	1	0.0	0.0
75 Pneumonitis due to solids and liquids	44	0.5	4.5
76 Other diseases of respiratory system	106	1.2	10.8

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2006

	Deaths	Percent	Rate*
77 Peptic ulcer	14	0.2	1.4
78 Diseases of appendix	1	0.0	0.1
79 Hernia	11	0.1	1.1
80 Alcoholic liver disease	35	0.4	3.6
81 Other chronic liver disease and cirrhosis	36	0.4	3.7
82 Cholelithiasis and other disorders of gallbladder	19	0.2	1.9
83 Acute and rapidly progressive nephritic and nephrotic syndrome	0	0.0	0.0
84 Chronic glomerulonephritis, nephritis & nephritis not specified as acute or chronic and renal sclerosis unspecified	2	0.0	0.2
85 Renal failure	203	2.2	20.6
86 Other disorders of kidney	0	0.0	0.0
87 Infections of kidney	3	0.0	0.3
88 Hyperplasia of prostate	2	0.0	0.2
89 Inflammatory diseases of female pelvic organs	0	0.0	0.0
90 Pregnancy with abortive outcome	0	0.0	0.0
91 Other complications of pregnancy, childbirth and the puerperium	1	0.0	0.1
92 Certain conditions originating in the perinatal period	36	0.4	3.7
93 Congenital malformations, deformations and chromosomal abnormalities	38	0.4	3.9
94 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	136	1.5	13.8
95 All other diseases (Residual)	974	10.7	98.8
96 Motor vehicle accidents	138	1.5	14.0
97 Other land transport accidents	3	0.0	0.3
98 Water, air and space, and other and unspecified transport accidents	8	0.9	0.8
99 Falls	131	1.4	13.3
100 Accidental discharge of firearms	4	0.0	0.4
101 Accidental drowning and submersion	13	0.1	1.3
102 Accidental exposure to smoke, fire and flames	5	0.0	0.5
103 Accidental poisoning and exposure to noxious substances	27	0.3	2.7

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2006

	Deaths	Percent	Rate*
104 Other and unspecified nontransport accidents and their sequelae	99	1.1	10.4
105 Intentional self-harm (suicide) by discharge of firearms	21	0.2	2.1
106 Intentional self-harm (suicide) by other and unspecified means and their sequelae	84	0.9	8.5
107 Assault (homicide) by discharge of firearms	10	0.1	1.0
108 Assault (homicide) by other and unspecified means and their sequelae	30	0.3	3.0
109 Legal intervention	0	0.0	0.0
110 Discharge of firearms, undetermined intent	0	0.0	0.0
111 Other and unspecified events of undetermined intent and their sequelae	12	0.1	1.2
112 Operations of war and their sequelae	0	0.0	0.0
113 Complications of medical and surgical care	15	0.1	1.5
900 Not yet classified at time of printing	90	1.0	9.1

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2006 a total of 428 deaths due to accidents occurred in the province of Saskatchewan. This represents a crude rate of 43.4 deaths by accidents per 100,000 population in 2006. This is higher than the 332 deaths (33.4 crude rate per 100,000 population) recorded in 2005.

Accidents and Violence

The number of suicides that occurred in Saskatchewan during 2006 was 105. This represents a crude rate of 10.6 suicides per 100,000 population. This is higher than the 93 suicides (9.4 crude rate per 100,000 population) recorded in 2005.

There were 40 homicides in Saskatchewan in 2006, an increase from the 29 homicides reported in 2005.

D. Natural Increase in Population

In 2006, the natural increase was 3,327 and the estimated actual increase was –4,571 giving rates per 1,000 population of 3.4 and –4.6 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 2001– 2006

				Natural Increase		Est. Actual Increase	
Year	Population	Live Births	Deaths	Number	Rate per 1,000 Pop.	Number	Rate per 1,000 Pop.
2001	1,000,134	12,275	8,740	3,535	3.5	-7,633	-7.6
2002*	995,886	11,760	8,906	2,854	2.9	-4,248	-4.3
2003*	994,732	12,038	9,007	3,031	3.0	-1,154	-1.2
2004*	994,888	11,983	8,845	3,138	3.2	156	.16
2005*	989,957	12,104	8,845	3,259	3.3	-4,931	-5.0
2006	985,386	12,427	9,100	3,327	3.4	-4,571	-4.6

* Statistics Canada postcensal estimate. All other figures are final census.

Note: Saskatchewan's covered population on June 30, 2006 (per the provincial health registry) was 1,003,231

E. Marriages

During the year 2006, a total of 5,157 marriages were solemnized in Saskatchewan. This total represents a crude rate of 5.2 marriages per 1,000 population. Marriage rates for Canada, the provinces, and Saskatchewan for 2005 are given in Table 10.

Of the 5,157 marriages registered in Saskatchewan in 2006, 33 of those marriages were between same sex partners.

Table 10. Marriages Rate per 1,000 Population, Canada and the Provinces, 2005

Province	Rate*
Canada	4.6
Newfoundland & Labrador	5.5
Prince Edward Island	6.0
Nova Scotia	5.0
New Brunswick	4.9
Quebec	2.9
Ontario	5.1
Manitoba	4.9
Saskatchewan	5.1
Alberta	5.4
British Columbia	5.2
Yukon	5.1
Northwest Territories	3.3
Nunavut	2.2

*Preliminary – Statistics Canada

F. Divorces

In 2006, a total of 1,953 divorces were registered in Saskatchewan at the time of publication. This may not represent the total number of petitions filed in 2006 as some petitions may not yet be finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to Statistics Canada, the life expectancy at birth for Saskatchewan in 2004 was 82.1 years for females and 76.6 for males.

H. Adoptions

There were 136 adoptions registered in Saskatchewan during 2006, compared to 143 adoptions in 2005. The total of 136 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 2006, a total of 809 legal change of name applications were registered in Saskatchewan. This represents a decrease from the 894 change of name applications that were registered in 2005. The number of applications does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.

J. Documents Issued

Table 12. Documents Issued 2004 – 2006

Document type	2004	2005	2006
Birth Certificates	47,853	47,317	49,774
Marriage Certificates	5,090	5,500	5,331
Death Certificates	5,674	4,840	4,914
Copies of Registrations	9,539	9,058	9,075
Total	68,156	66,715	69,094